96 find Monch 21 1. 1826

An Essay

ow the

Modus operandi of Emetics.

By

William . L. E. M. Faunt fe Pop

04

Virginia

1825

Among the numerous and important remedies which the dispensor of all good, has deemed fit to bestow on man for the relief of his sufferings, emetics hold not the least distinguished rank. Difsemin ated as they are through the mineral and regetable kingdoms, there is no land so miserable as to be destitue of them . In the first ages of created time, eze get the bright touch of science began to illume mans dreary path, we see him led, as it were by inthition, to seek relief in his corporeal afflictions from emelie sub. returned. And man is not the only one -- two that makes frequent calls upon This source for remedial assistance. In The brute creation the truth is daily

went were to be and you

exemplified, by their frequent employ. ment of emetics, that nature gave us these substances as neapour of define to shield our health and constitutions a - gainst the inroads of fell disease. What first induced man to venture upon the trial of emelies in disease, is not afcertained, yet it may not be ar= rogance to presume he was encouraged by analogical reasonings. Percuring the good of feets resulting to brutes from The employment of them in their dis-- cases, he no doubt concluded that they would be equally beneficial in his own complaints, and was, I imagine, stangth. - ened in this opinion, by the daily de-- moustation of salutary offects re--sulling from spoutamous bounting in disease

Further the indomitable disposition of man towards unitation and peculiar fordress for innovation, will of them. - selves reasonably account for the discovery . But conjecture aside, ne know that as far back as the records of me dieine bear us out, they were cateupire-- by employed. They were prescribed by the great Hippoceates and the physicians of his day Amid the fluctuations of medical opinion, and the prejudices of contending , parties, their fame has continued to increase, and numerous are their sup-- porters: True, emilies, as all other medienes, have had their opponents, but Their extensive and almost universal up-- plication to disease, loudly proclaim Their utility. In the dark ages of anti=

quity, the cureties employed were mostly of the deastie kind, and were no doubt emprisically prescubed. This as well as every other class of medicines, must be more or less prejudicial to health and distince tive of life, if their administration be regulated by empiricism, and not the dictates of a sound discrimination, emanating from a mind stored with salutaly and well established principles. Tis This indiscremenate and unenlightened mode of prescribing medicines, that has retarded science and inspered many with a want of confidence in some of our most important resources; but as regards the medicines in question, the rapid advancement of medical science has banished these unwarrantable appres hensions from the minds of men, has

the same the same the same and the same

chang designated what metre is suited to lack particular case, and mo, no presiden can dispuse with This craps of semulies.

To the boundless resources of chemistry me an indebted for many of our emes . Tie sulstances - without the hind aid is That capidly advancing recence we should get be in comparative darkness, and This important owner or Materia Inedica would be some uges behind hand; out happily for man this most interest. ing of all sciences has not only incurrent the number of these ruinable medicines, but has quality beformed the danger up prehended from their administration, by enabling us at all limes nightly to discurrente letween their comparative thoughts, and generally to unherpate



their eflects. Autotowns which a short line since mere only regarded as the most dead , by poisons, have now become, by chemical investigation, our most officient weapons in orthating disease.

Alter three halfminance observations

After these preliminary observations, I shall now proceed to investigate the subject in question, purious to which, between, I shall relate some of the please, mena attenting the administration of an inetie, and consideration to which way sown come rules for its proper exhi-

cometies are, defined to be thou suborderes which excite routing, indepondent of any effect arising from the stimulus of quantity, or of that orcasioned by any nansecus laste or flasoon, . Vomiting may be in duced by



various ofther mans, as dis quet, sailing, tickling the fances with a feather se's luts there, though they produce the immediate of ceets of one ties, have no substantial claim do the title Most other medicines less their power by upetition, which, indeed would seem He be one of the laws of habit . Exactly nowever, as ome des "repented, so does the seomach mereuse in susciplifielity to wheir impression, so much so, that, after queguent nee the mere eight of the nu: diana or conversation relative to it, well excite womeling. After the exhibition of an omelie the collowing prenomina are presented; The patient of cets a dis a greeable sensation a Lour the precordia, allender with nausea tooner or later, according to the inita-



bility of the stomach, or the quantity or hongth of the medicine given - Thun sue ends debility of row relaxations of the mus. cies, the blood weeder from the surgare I the body to the internal parts, leaving The counterrance and extremities shown and pale, the shin cooler and more most the pulse feeble, quick & negular, and casionally some degree of chillings. When there symptoms have continued for a short lime, the saliva flow very quely and vomiting ensues. As som as vometing commences, the blood is de burnined to the surface, the pulse becomes full and more frequent, the of ace suffused, the skin floris and warmer, and considerable moisture appears on the forehead. After the open ration has exased, the pulse gradually



resumes its natural standard becoming slower and Julier, the patient ghels langued and is much disposed to sleep. Some emelies, as tobacco and its kinds and articles, produce this progration of strongth and relaxation of museles to a unuch quater degree than others. The parts concerned in somiting, are, the Esophagus, stomach, aldominal inuscies and diaphragm. The my luena or he viain is also of soutial to the process . To close is the connexion of the brain with the stomach, that an impression made on the one is imme diately experienced by the other hence we see the truth established, that if the energy of the brain be diminished. there is consequent deminetion of the natural susceptibility of the stomach,



In cases where the brain has sustained any injury, as, from conculsion, compression he, it is a very difficult matter to in. duce vomiting; so completely inspended. is the nerving sensibility, What the largest doses of the most deastie emeties, prove marailing in arousing it is de-When an emetic is taken into the stomuch, the impression made ing its presence is transmitted to the hain, the ab dominal newsales and dia pringer are thrown into contractors, the peris stallie motion of the stomach is inverted and its contents discharged. In the proses of rounting, the stomach has been rigarded by some as a passive o gan, and many physiologists &the present time doubt its agency.



That it quieds some aprisioner levereds the ejection of its contents appears enacty from the experiments of Haightin. The museular stincture of the stomach must be designed for some purpose or other, and this our represent to be antivered by admilling the question . Fruther, no of ten see water discharged from the Mornach in heart burn and pyroxis, without the assistance of the diaphragn and abdominal muscles, and the definition of remaking equally applies to this yee : then. It would be in direct contradiction its the laws of motion and graces to pre-- some a lody to more without for pulinand in this ease the propelling power a opener clearly is exist in the muscular tunie of the towner . Dr Ruchard Hairsons theory of vormiling concerns so



exactly with my ideas of it, that I cum not regrain from inserting it: He says, the instation of the stomach makes a eall for the brain for the aid of the dia phragen and abdominal muscles in order to expel its contents; the diaphragen then becomes contracted and graed, the ribs drawn down and the aldominal muscles drawn inwards, so that the stramach is foreful in on all sides by wohntary muscles, which, together with its own con hackons esupel. its contints. Informing an opinion on this eculistic point, I have no as perments of my our do govern me, but sumply from the sto. Suach perseging a museular ecat, 1 an induced to betwee That it wints our the encenation of its contents - and Fin this conclusion I am confirmed,



more especially as the files of this court are both longitudinal and circulars and by their contractions, partially or wholey obliterate its county. The action of an emetic is not confined solely to this portion of the digestine deparames. In accordance with an estar blished law of Physica loss I an impulsion made whom the end of a tale will be transmitted through its whole extent. the peristaltic metion of the duodemun and whole alimentary ound is some = Times inverted, so much so, that stine se or a crows mutter is thrown up. This unnatural proces has been termed cliac passion. Besides, an ametic getting wito the intestines, assumes the character of a progative, producing the offeet peculiar to that class of medicines.



I thair new proceed to econsider in what manner come of the rouns and systems are affected by the operation rof an amelia. 1: The brain; It has ven al wader shown how close a sympathy caists between the · hair and Flownoh; That the nealthy fund cious of the one depends upon the healthy concletion of the other- if any diseased · condition of the brain calls, and the cause if it can be traced to gashie disorder. when this cause is resnoved the brain will resuma its healthy functions . In case of a prison taken into the stomach. the brain immedably speels its baneful intoluence, as is proved by the wretches condition of the patient; an enute, if it operates removes this poison and substitutes, a healthy for a morbid action in the



atomach, which like other impurious is nauernitul is the ocurre. 3: The Liver; It is relieved of congestion by the preferre of the al- bonusal sursoles hastening the portal circulation . These enetry extremities of the hepatie dust are also michaed in Their action . The emetic produces an impression on the ma' of the ductus comminumis chole dochus, which is transmitted through all its sa - mixications, stimulating them to in. - ou asol exertions. This is rendered more certain by the circumstance, that is, the amotic is thrown of from after its ex-- whition, there is little or no best dis . - charged . The same observations afo year equally applicable to pancies & opline. The sanouatre duct opening into the duodenum, is equally affected with the



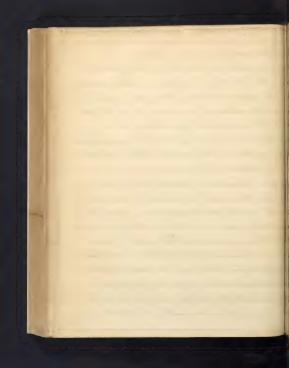
to rate duck and like it conducts the impression to its capillary in humbers. 3: The nervous eyetern, is operated on through the medium of its pleases and gang-4: The circulatory system; is materially affected by the operation of an emetic. The portal circulation being quickened throws more blood into the heart in a given time, thereby hastering the gone -- ral circulation. The mate being ab. sorbed is distributed by the bloodrefsels to all parts of the system, and acts di-· neetly on the capillaries promoting in the different tesomes, the secretions he - onliar to them. The good effects of emetics are obtained by their discriminative administration. An emetic should passeribed when



the following organs love and appearances are presented; nausea, better taste in the month, the trongere oncuested with a while for or foul and maist, facted breath, acid ornotations, headach and other symptome denoing a hout stomach and depraved digestion. The longue may be loaded and other characteristies of foul stomach may appear, yet with these ap-- pearances, should the longue be of a red colour and dry, sunch thirst and other marks of gastice insitation show them. selves, nothing can be more injurious than an emetic . The Pules which we should always keep in view and be governed by when preseries - ling an metic are these viz: To when a prompt and immediate openation is desired, prescribe an active



mulie and in a large dose. \$ 2. It have a mind operation is wanted, The . ometic should be given in diaded downs, and after rowiling has commend the patient should enecuage it by the wee of water moderately warm. 3. It is is meessay to make a powerful impression on the system, little or no wa -- ter should be given . 1.4: But when our object is sunfly to era: - cuate the continues in the stomaci, a mild emetie should be given, and its reperation promoted by exprous draugues of Chamos ile tea, tepid mati Le. is To obtain the best of reets of unches, and at the same time to under their cheration more easy and a queable to the patient, they should be given on the morning and on an empty stomach.



This as a general with thoused we ugarded, but when the moefity of the case calls for an emetie, we thould not let our prede · lictions of or general rules bials our better judg ment and lead as into error by per-. mitting the golden time to slip. 6: It sometimes happens that vomiling proceeds two far and becomes inordinate; To put a stop it, the following substances nave been recommended: Some of the box = : dials, tructures and aromatic tras te, with or without Landamum - the offer . - rescring misition - barbonated waters withits se . Thould there fact, my waner gomentations or stimulating cuitaplasms to the region of the stomach - Sinaprimer to the entremities, anodyne injections, blisters to the opegastree region to - But whore all checken water should not be



neglected - its action is buly uslossishing I calme the count throws and homes the operation downwards . I have seen it and most admirably in a very bad case, when many other automotic subtances had bun unasailingly comp yell. In cases of inordinate woulding, when the stor smach as so initable as to reject orang thing puscuted, Dr. Chapman recommends an old opicon field, one that has been made for some months; he says it will be retained when nothing else will. Harry thus laid down rules for the pro-- per administration of emeties, I shall now mention some conditions countrine - dieating their use. I They should not be given in highly inflammatory fives and wolint in = - flamma tion of the brain and other viscesa.



2: In a plethorie state of the system; should be preceded by b. J. 3: In some humorriages from solution of continuity: in huma, prolapsus utisi and the advanced state of pregnancy -4: When the system is very feelle, as in The aciranaed stages of fevers; should an emutic be given while there is quat powhation of strongth, reaction snight not take place. In a cusative point of view esuches are employed 1: To evacuate the contents of the stomach - an important and much desind and, when that organ is loaded with initaling matters or poisons. 2. For stimulating the exhabits on the sun face of the stomach to pour out a great ster quantity of glaid; for altering the morbid condition of the stomach by



giving tone and restoring its healthy fune tions . B: Jourtines for the purpose of producing countries tation in case of inflamed brain and viscera. 4: In some diseases, for the good effects as rising from the general concupion pro-Threed by chartie emetics. 5. For Francting diaphoresis. 6: By the surgeon; for the purpose of welas. ing the unseles, as an auxiliary to the us atoration of a dislocated joint. I have, thus , gentlemen , concluded what I had to say on this important subject. I have not entered so minutely into the suodus operandi of meties as I wished, but I tust this of whe effort may meet your approbation, and it not I lishe It may be consigned to the regions of blision, when many a worthier piece

